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Client Network Operating Systems

Assignment 1 [CNOS5112]

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# Question 1: [Theory}

# Q.1.1

**The different Microsoft Windows Version offerings [Windows 10]:**

* Windows 10 Home
* Windows 10 S
* Windows 10 Pro
* Windows 10 Enterprise
* Windows 10 Education
* Windows IoT

(Unknown, 2021)

**Notable Offerings:**

**Windows 10 Home [Offerings]:**

This is the standard windows version that is pre-installed on most PCs. It’s the most common version as it offers **standard features** which helps users in their **daily lives** and **routines.**

**Windows 10 S [Offerings]:**

This version can be enabled and disabled. The purpose of this version is to **protect/secure** your device from malware and malicious software damaging your PC. **Notable offerings:**

* Microsoft Edge as the only browser usable/available.
* Microsoft Store to install software. [Only]
* Commands can’t run from the command line.

**Windows 10 Pro:**

This version offers the same features as Windows 10 Home, with additional tools added for business use. It is best suited for advance home users as it includes tool such as, **Notable Offerings:**

* BitLocker for enhanced encryption choices.
* Remote desktop gives the user access or log in options when he/she is away from their desktop.
* It can run and create virtual machines.

**Windows 10 Enterprise:**

This version of Windows 10 is unlikely for you to have although it is mainly accessible in workspace environments where you would use this version on a work PC. It hosts all the features that Windows 10 Pro offers *[Mentioned Above]* with features of its own that grant IT administration remote access to certain aspects of employee’s Pcs. **Note:** this version is not available for purchase from a shelf, a company purchases a volume license which allows installation of the operating system on multiple/certain number of PCs.

**Windows 10 Education:**

This version like the above mentioned is not available for purchase and is used in educational institutes for students or if you work at these institutes. It has similar Windows 10 Pro features with the ability to disable or turn off the Microsoft store. It is low cost and provides these institutes with Windows 10 OS.

**Windows 10 IoT:**

This is a special version which was made to run on low-powered devices such as smart devices that have a touchscreen display.

(Unknown, 2021)

# Q.1.2

**Minimum hardware requirements for installing Windows 10:**

* **Processor:** 1 gigahertz (GHz) or faster processor or SoC
* **RAM:** 1 gigabyte (GB) for 32-bit or 2 GB for 64-bit
* **Hard disk space:** 16 GB for 32-bit OS or 20 GB for 64-bit OS
* **Graphics card:** DirectX 9 or later with WDDM 1.0 driver
* **Display:** 800 x 600

**Recommended Architecture:**

64bit with 4GB RAM or more.

**Advantages of 64bit over 32bit:**

* It handles more data at once.
* Holds more computational values.
* More efficient and faster.